

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



NATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

International Patent Classification⁶ :

K 16/46, A61K 39/44

A1

(11) International Publication Number:

WO 99/67293

(43) International Publication Date:

29 December 1999 (29.12.99)

International Application Number: PCT/US99/13959

International Filing Date: 21 June 1999 (21.06.99)

(30) Priority Data:

09/100,287

20 June 1998 (20.06.98)

US

(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application

US

09/100,287 (CIP)

Filed on

20 June 1998 (20.06.98)

(71) Applicant (for all designated States except US): UNITED BIOMEDICAL INC. [US/US]; 25 Davids Drive, Hauppauge, NY 11788 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WANG, Chang, Yi [US/US]; 47 Snake Hill Road, Cold Spring Harbor, NY 11724 (US). WALFIELD, Alan, M. [US/US]; 45 Schiller Avenue, Huntington Station, NY 11746 (US).

(74) Agent: LIN, Maria, C., H.; Morgan & Finnegan, L.L.P., 345 Park Avenue, New York, NY 10154 (US).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: PEPTIDE COMPOSITION AS IMMUNOGEN FOR THE TREATMENT OF ALLERGY

(57) Abstract

The invention provides peptides comprising a sequence homologous to a portion of the third constant domain of the epsilon heavy chain of IgE, covalently linked to either (1) a carrier protein, or (2) a helper T cell epitope, and optionally to other immunostimulatory sequences as well. The invention provides for the use of such peptides as immunogens to elicit the production in mammals of high titer polyclonal antibodies, which are specific to a target effector site on the epsilon heavy chain of IgE. The peptides are expected to be useful in pharmaceutical compositions, to provide an immunotherapy for IgE-mediated allergic diseases.